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APPLICANT : MATSUSHITA ELECTRIC WORKS LTD;

INVENTOR : KAMIGAKI YURIKO;

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TITLE : PRODUCTION OF HYDROPHOBIC AEROSOL

ABSTRACT : PURPOSE: To obtain a hydrophobia aerosol on which moisture, etc., are hardly adsorbed, reduced in deterioration on aging and capable of forming a light-transmissive porous body by allowing a polymer with $(\text{SiO}_2)_m$ (m is a positive integer) as the skeleton and having a silanol group to react with a hydrophobicity-imparting material and supercritically drying the gel of the obtained modified polymer.

CONSTITUTION: A polymer with $(\text{SiO}_2)_m$ (m is a positive integer) as the skeleton and having a silanol group is allowed to react with a hydrophobicity-imparting material having a functional group capable of reacting with the silanol group and made hydrophobic to obtain a gel of the modified polymer. The gel is supercritically dried to obtain a hydrophobic aerosol. The polymer as the starting material is obtained by hydrolyzing an alkoxyasilane shown by $\text{SiR}_n^1(\text{OR}^2)_{4-n}$ (R^1 and R^2 are independently 1-5C alkyls or phenyls and then polycondensing the hydrolysate.

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